

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of the Claims

1. (Currently Amended) Data transmission system comprising an antenna provided with at least a monopole radiating element mounted on a conductive earth plane, wherein the radiating element is connected to the conductive surface of the earth plane via a mast located near an edge ~~of~~ on said conductive surface and wherein said radiating element has a planar shape and is substantially vertically arranged with respect to the conductive surface of the earth plane.
2. (Previously Presented) A system according to claim 1, wherein, since the radiating element is connected to the conducting surface of the earth plane via a mast fastened to the radiating element at its point of excitation, this point of excitation is off-centered with respect to the surface of the earth plane.
3. (Previously Presented) A system according to claim 1, wherein the earth plane has at least one of its dimensions, such as its length, its width and/or its height, of the order of a multiple of $\lambda/2$ where λ is a wavelength used by the antenna.
4. (Previously Presented) A system according to claim 1, wherein it includes means so that its reflection coefficient is less than -10 dB in the operating frequency band.
5. (Previously Presented) A system according to claim 1, wherein it includes a first compact radiating element and a second compact radiating element mounted on the same conductive earth plane via masts located on separate edges of said earth plane.
6. (Previously Presented) A system according to claim 1, wherein the antenna is provided with a hollowed-out radiating element.

7. (Previously Presented) A system according to claim 1, wherein the earth plane of the antenna corresponds to one face of a digital terrestrial television decoder.
8. (Previously Presented) A system according to claim 1, wherein it includes means for receiving and decoding transmitted signals within the context of digital terrestrial television within the frequency band lying between 470 and 862 MHz.
9. (Previously Presented) A system according to claim 1, wherein the antenna includes means for pivoting about a rotation mechanism with respect to the surface of the earth plane.